ACC NR: AP6005500

SOURCE CODE: CZ/0678/66/065/001/0021/0022

INVENTOR: Hrach, Jiří (Engineer; Prague)

ORG: none

TITLE: Equipment for the automatic sorting of toroid ferrite cores CZ Pat. No.

PV 2563-64

SOURCE: Vynalezy, no. 1, 1966, 21-22

TOPIC TAGS: electric equipment, automatic control equipment, ferrite core memory,

programmed automatic control

ABSTRACT: Equipment for the automatic sorting of toroid ferrite cores, created by a shift register whose output conductors are connected across a selecting field and gate with a generator of specific current impulses, with a starter circuit of the shift register, with a counter of cycles of impulse with the shift register, and with evaluating and feeding circuits formed by the memory of the results of measurement, by the program field, by the search circuit of the correct results, by the feed memories and the control circuits of the mechanical functions of the feeder of the cores, noted for the part of the output conductors of the cycle counter is connected through the addition circuit with the gates across which the shift register and selecting field are connected with the generator of the specific impulses, another part of the output conductors of the cycle counter is connected with the control

ACC NR: AP6005500

circuit of the mechanical function of the mechanical feeder of the cores, the results of measurement enter into the memory of the results of measurements, which are joined with the program field and from here, partly through the feed gates with the control circuits of the mechanical function, partly with the search circuit of the correctness of measurement whose output is joined across a gate with the feed gates and connected across an inverter and a gate with the input of one of the feed memories, in which the memory of measurement results, the feed memory, and the gates are further connected to the output gate, whose inputs are connected partly to several of the output guides of the shift register and partly to several of the output guides of the cycle counter.

SUB CODE: 09/ SUBM DATE: 03May64

Card 2/2

Z/014/63/000/003/003/003 E192/E382

AUTHOR: Hrach, Jiří, Engineer

Card 1/2

TITLE: An accurate time switch

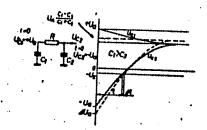
PERIODICAL: Sdelovací technika, no. 3, 1965, 104

TEXT: The principle adopted in the design of the switch makes it possible to avoid stabilized supply sources for charging the timing network RC. It is illustrated in Fig. 2. At a time t=0 the capacitor C_1 is charged to a voltage U_a and the capacitor C_2 to a potential $-U_a$. Now, the transient commences, leading to the balancing of the condenser charges, as shown in Fig. 2. Thus, the voltage across C_2 increases exponentially from $-U_a$ to $U_a(C_1-C_2)/(C_1+C_2)$ and, conversely, the voltage across C_1 decreases exponentially to this level. The intersection point of the exponential transient with the zero voltage level is independent of the magnitude of U_a . However, in practice the transient is terminated at a voltage $-U_z$ (if an electron tube is

An accurate time switch

2/014/63/000/003/003/003 E192/E382

employed in the timer). In this case, the change of U_a and U_z results in only a very small variation of the timing interval t. A timer based on a single vacuum tube and a relay was designed on this principle. Timing intervals ranging from 1 to 160 sec in 1 sec steps were easily achieved and the change of U_a of \pm 20% resulted in a \pm 0.35% change in the timing interval. There are 4 figures.



Card 2/2

Fig. 2

23670-66 EWA(b) cz/0078/65/000/011/0011/0011 ACC NR: AP6009337 SOURCE CODE: AUTHOR: Hrach, Jiri (Engineer); Mikolas, Frantisek (Engineer; Prague) 35 ORG: none pulse generator. CZ Pat. No. PV2759-65, TITLE: Variable-voltage Class 2la, sup 1 SOURCE: Vynalezy, no. 11, 1965, 11 TOPIC TAGS: transistor, resistor, transformer ABSTRACT: An Author Certificate has been issued for a transistorized pulse generator which is fed from a variable-voltage source. The transistor is connected with the variable-voltage source by a resistor, while its base is transformer-coupled to an exciter stage which, in turn, is controlled by pulses from a pulser, and by another variablevoltage source. The transformer primary is connected with a variable voltage source whose output voltage is controlled by the output voltage of the first-mentioned variable-voltage source. 28Apr65/ SUBM DATE: SUB CODE: 09/

CIA-RDP86-00513R000618220006-6 "APPROVED FOR RELEASE: 09/21/2001

ACC NR. AP6005483

SOURGE CODE: CZ/0078/66/000/001/009/0009

INVENTOR: Hrach, Jiri (engineer) (Prague)

ORG: none

TITLE: [A dynamic retardation element] CZ Pat. No. PV 1333-63, Cl. 20 21a

SOURCE: Vynalezy, no. 1, 1966, 9

TOPIC TAGS: delay circuit, transistor, transistorized circuit

ABSTRACT: A dynamic retardation element is described which is constituted by a transistor whose emitter is connected to a tuned circuit and whose base is either connected through a coupling diode to the winding of an induction coil connected to the coil of the tuned circuit, or connected through an input diode to a resistance and to an input condenser with an emitter-repeater. The distinguishing feature of the device is that the collector of the transistor whose emitter is connected to the tuned circuit, is connected through a diode to the base of the transistor which constitutes the emitter-repeater and to the base of this transistor are further connected a condenser and a discharge diode. The input condenser is connected by the condenser plate to a resistance and through a commutation diode is connected to the discharge diode and the time pulse generator.

SUB CODE: 09/ SUBM DATE: 08Mar63

CIA-RDP86-00513R000618220006-6" **APPROVED FOR RELEASE: 09/21/2001**

HRACH, Otto; SKRIVANEK, Jan

New toroidal current-measuring transformers. Elektrotechnik 17 no.12:335-338 D 162.

1. Zavody prumyslove automatizace, zavod Krizik Smichov.

	Colorimetria tests. P	Colorimetrio tests. Pt. 0, Coll Cz Chem 29 no.10:2484-2489 0 164.						
	1. Institut fur analytische Chemie, Karlsuniversitat, Frague.							
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HRACHOVEC, B.

"Care of Implements Reduces the Proper Expenses." p. 21 (ZELEZNICE, Vol. 3, No. 1, 1953) Praha, Czechoslovakia

SO: Monthly List of East European Accessions, Library of Congress, Vol. 3, No. 4, April 1954. Unclassified.

HRACHOVINA, Vaclav

Contribution to the treatment of ecliptic retinitis. Cesk.ofth. 17 no.1:61-63 Ja '61.

1. Ocni oddeleni CUNZ v Opave, prednosta MUDr. Josef Stefek. (RETINITIS in inf & child)

KOSTKA, J.; HRACHOVINA, V.

The syndrome of toxic epidermolysis bullosa as a toxic-allergic reaction after Spofadazin (sulfamethoxypyridazine). Cesk. derm. 36 no.8:546-552 D '61.

l. Infekcni oddeleni OUNZ v Moste, prednosta MUDr. Vladimir Hrachovina, kozni oddeleni OUNZ v Moste, prednosta MUDr. Valter Frolich. (SULFAMETHOXYPYRIDAZINE toxicol.) (EPIDEMOLYSIS BULLOSA etiology)

HRACHOVINA, V.

Effect of gualacuran and chlorpromazine on handwriting and drawing of myopic children with nystagmus. Cesk. oftal. 18 no.3:201-206 My 162.

1. Zakladni devitileta stredni skola pro zaky slabozrake a vadne mluvici pri OUNZ v Opave, reditel M. Kral Ocni oddeleni OUNZ v Opave, prednosta MUTr. J. Stefek.

(NYSTAGMUS in inf & child) (MYOPIA in inf & child)

(HANDWRITING) (PROJECTIVE TECHNIQUES)

(CHLORPROMAZINE pharmacol)

(MUSCLE RELAXANTS pharmacol)

HRACHOVINA, V.

Enzyme therapy of stenotic processes of the inferior lacrimal canaliculi and the nasolacrimal duct. Cesk. oftal. 19 no.5: 353-358 S '63.

1. Ocni oddeleni OUNZ v Opave, vedouci MUDr. J. Stefek.

(LACRIMAL DUCT OBSTRUCTION) (NEOMYCIN)

(BACITRACIN) (CORTISONE) (TRYPSIN)

(ACRIDINES) (ANTISEPTICS)

HRACHOVINA, V.

The most frequent cause of epiphora and our experience with its treatment with the Tichomirov and Pochisov methods of surgery. Cesk. oftal. 19 no.4:274-279 Jl '63.

1. Ocni oddeleni OUNZ v Opave, vedouci MUDr. J. Stefek.
(LACRIMAL DUCT OBSTRUCTION)
(SURGERY, OPERATIVE)

HRACHOVINA, V.

Hyaluronidase in the treatment of the fundus oculi. Cesk. oftal. 21 no.6:471-476 N 165.

1. Ocni oddeleni Obvodniho ustavu narodniho zdravi v Opave (vedouci MUDr. J. Stefek).

RIEBEL, O.; HRACHOVINA, V.

Long-term results after dacryocystorhinostomy. Cesk. oftal. 21 no.6:446-450 N '65.

1. Ocni klinika lekarske fakulty University J.E. Purkyne v Brne (prednosta prof. dr. J. Vanysek, DrSc.).

ACC NR: 126027312

SOURCE CODE: UR/0428/66/000/002/0091/0098

AUTHOR: Hrachykhin, L. I.; Nekrashevich, Ya. I.

ORG: none

TITLE: Measuring coefficients of argon absorption in a shock tube

SOURCE: AN BSSR. Vestsi Seryya fizika-matematychnyckh navuk, no. 2, 1966, 91-98

TOPIC TAGS: absorption coefficient, plasma wave absorption, monochromatic radiation, gas chromatography, argon, shock tube

ABSTRACT: It is important to know the light-emissive and absorptive capacities of a hot gas at high temperature. Therefore, methods must be experimentally developed to measure the coefficients of plasma absorption at different temperatures and pressures. This work sets forth two methods of finding the monochromatic coefficients of absorption in reference to the shock tube. The first method is based on use of the self-illumination of the emitting volume by means of a single mirror; the second, on finding the relative light-emissive intensity of a heated gas of various densities. Measurements were made in a steel shock tube with chromium-plated interior permitting the greatest possible use of a low-pressure glass chamber. Argon was the gas employed. This paper proposes a simple and comparatively accurate (15%) method of measuring the absorption coefficients of hot gases in a shock tube. Measurements of this coefficient for argon at ~10,700 K in the spectral range of 1/2

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ACC NR. AP6027312

4000-6000 Å are in good agreement with the results of L. M. Biberman and G. E. Norman (J. Quant. Spectrosc. Transfer, 3, 221, 1963). Simultaneous registration of different wavelength regions (using quantometer-like equipment) with direct temperature measurements in each experiment gives more accurate results than Biberman and Norman. It is found that under certain experimental conditions up to M. 8 a sample of the hot gas with the reflected shock wave along the tube axis is a homogeneous plasma. The authors thank M. A. El'yashevich for interest in the work and useful advice. Orig. art. has: 9 formulas, 2 tables, and 3 figures.

SUB CODE: 07/ SUBM DATE: 040ct65/ ORIG REF: 002/ OTH REF: 038

Card 2/2

HRADCOVA, L.; SOVA L.

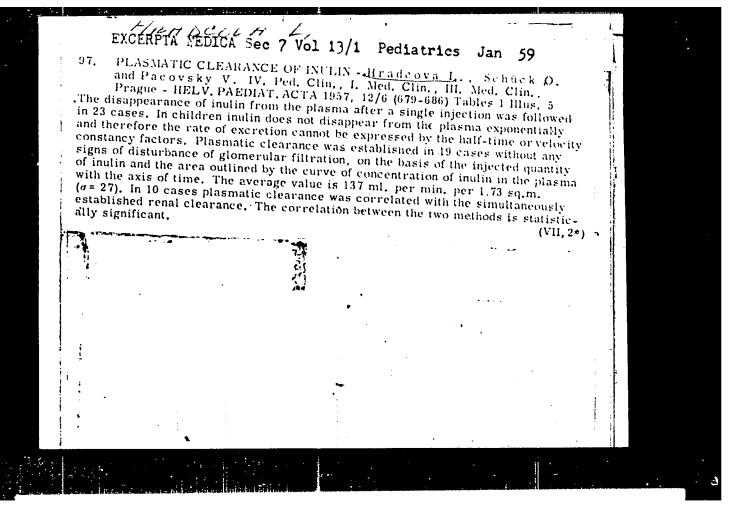
Angiotesin skin test and its relation to hypertension. Cesk. pediat. 18 no.11:988-995 N.63.

1. IV. detska klinika fakulty vseobecneho lekarstvi KU v Praze; Prednosta: prof.dr. F. Blazek; a II. interni klinika fakulty vseobecneho lekarstvi KU v Praze; prednosta: prof.dr. F. Herles, DrSc.

APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618220006-6"

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		January III			



PACOVSKY, V.; HRADCOVA, L.; SOBRA, J.

Familial orthostatic proteinuria — a new tubular syndrome? Cas. lek. cesk. 103 no.36:1005-1006 4 S 164.

1. III interni klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta akademik J. Charvat); IV detska klinika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. F. Blazek).

Separate estimation of renal tubular reabsorption of water in children. Cesk, pediat. 13 no.71588-594 Aug 58.

1. IV. detska klinika, prednosta prof. MUDr. F. Balzek. Klinika detske chirurgie, prednosta doc. MUDr. V. Kafka, I. interni klinika, prednosta prof. MUDr M. Hetousek.

(PYELONEPERTIS, in inf. & child renal tubular water reabsorp. in (Cz))

(URIMANY TRACT, abnorm. renal tubular water reabsorp. in child. (Cs))

(KIDNEYS, nhysiol. renal tubular water reabsorp. in child. with pyelonephritis & urinary tract abnorm. (Cz))

HELLER, J.; HRADCOVA, L.

Antidiuretic activity of rat and human plasma during the course of antogenesis. Cesk. fysiol. 9 no.1:16 Ja 60.

1. Fysiologicky ustav a IV. detska klinika fak. vseob. lek. KU. Praha.

(VASOPRESSIN, blood)

HRADCOVA, L.

Renal function in nephrolithiasis in children. Acta univ. carol. [med.] Suppl. 14:389-400 '61.

1. IV. detska klinika fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. F. Blazek.

(URINARY CALCULI in inf & child)
(KIDNEY FUNCTION TESTS in inf & child)

HRADCOVA, Libuse; HELLER, Jiri

Values of the antidiuretic activity of the blood plasma in children. Cesk. pediat. 17 no.5/6:531-535 Je 162.

1. IV detska klinika v Praze, prednosta prof. MUDr. F. Blazek Oddeleni fyziologie detskeho veku Fyziologickeho ustavu KU v Praze, prednosta prof. MUDr. F. Karasek.

(VASOPRESSIN blood)

HRADCOVA, Libuse

Significance of prolonged therapy of chronic pyelonephritis in children. Cesk. pediat. 17 nc.7/8:764-710 Ag $^{1}62$.

HRADCOVA, Libuse; HRADEC, Eduard

Contribution to surgical therapy of megaureters in children. Cesk. pediat. 17 no.9:802-807 S 162.

1. IV. detska klinika Detske fakultni nemocnice v Praze, prednosta prof. dr. F. Blazek II. chirurgicka klinika Fakultni nemocnice v Praze 2, prednosta prof. dr. J. Lhotka.

(URETER)

HRADCOVA, L.; HRADEC, E.

Vesicorenal reflux in relation to chronic pyelonephritis in children. Cesk. pediat. 20 no.2:106-110 F '65

1. IV. detska klinika (prednosta: prof. dr. F. Mazek); II. chirurgicka klinika (prednosta: prof. dr. J. Ihotka) fakulty vseobeoneho lekarstvi Karlovy University v Praze.

ANDRYSEK, O.; ANDRYSKOVA, J.; EENDL, J.; ELEKTA, M.; HRADCOVA, L.; CHYTIL, M.; ORT, M.; RASKA, B.; VALNICEK, J.

Isotope examination methods of the unopoietic system in pediatrics and obstetrics. Acta univ. Carol. [med] (Praha): Suppl. 18: 41-44.

1. Biofysikalni ustav fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: doc. dr. Z. Dienstbier); II. gyneko-logicko-porodnicka klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. J. Lukas); II. interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. F. Herles); IV. detska klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. F. Herles); IV. detska klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. F. Blazek) a I. detska klinika fakulty pediatricke University Karlovy v Praze (prednosta: prof. dr. J. Svejcar).

TOBERNY, Z.; HRADCOVA, L.

Polyarteritis nodosa of the kidney. Shorn. lek. 67 nc.8/9: 259-262 Ag 165.

1. II. chirurgicka klinika (prednosta prof. dr. J. Ihotka), IV. detska klinika (prednosta prof. dr. F. Blazek) fakulty vseobecneho lekarstvi University Karlovy v Praze.

9.4170 (1035,1051)

29040 s/081/61/000/018/019/027 B103/B101

AUTHOR:

Hradčovský, Rudolf

TITLE:

Luminescent composition based on zinc sulfide and sensitive

to infrared radiation

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 18, 1961, 310, abstract

18K127 (Czechosl. pat. 95316, 15.05.60)

TEXT: For photorecording of infrared radiation (IR), ZnS is activated by addition of 10^{-3} - $10^{-7}\%$ of Cu, Pb, or Co. The permissible content of metallic impurities in ZnS, which reduce its sensitivity to IR radiation, is $< 10^{-6}\%$ (the Ni concentration should be $< 10^{-8}\%$). The degree of purity of both activators and fusing agents should be equal to that of the luminescent ZnS. Example: ZnS precipitated by H2S from a Zn sulfate solution is washed, dried at $\sim 120^{\circ}$ C, mixed with Cu and Pb and with a suitable fusing agent, and calcined at $\sim 800^{\circ}$ C. Mixing and calcining is repeated several times until attaining the required sensitivity to IR

Card 1/2

00513K000618220006-6

HRADEC, E.; IHOTKA, J.

Clinical experiences with preserved arterial grafts. Sborn. lek. 55 no.1-2:1-21 Feb 1953. (CLML 24:3)

1. Of the Second Surgical Clinic (Head--Prof. J. Divis. M. D.) of Charles University, Prague.

* Naše zkušenosti v rozpoznáváni a léčení adrenogenitálního syndromu v dětském véku. Diagnosis and treatment of the adrenogenital syndrome in childhood SECHG. LEK. 1953, 55/4 (93-119) Tables 4 Illus. 10.

This is a full discussion of the clinical, biochemical, psychosexual and therapeutic problems arising from the adreno-genital syndrome for the pediatrician, surgeon, radiologist, biochemist and gynaecologist. For the investigation to assess the size of the adrenals or the presence of a tumour the authors advocate pneumo-retroperitoneal insufflation according to the method of De Gennes-May and Simon, in preference to periremal air insufflation. Thirteen cases seen between 1945 and 1952 are reported, 12 in girls and one in a boy. The ages ranged from 8 months to 10 yr. Two of the girls were diagnosed as suffering from carcinoma of the adrenal cortex, the others from adrenal hyperplasis. In h cases partial resection of one hyperplastic adrenal was carried out, removing approximately half the gland. Though the virilizing process was arrested postoperatively no regression of established clinical signs was noticed.

Holzel - Manchester (VII, 3, 9, 10, 14)

SO: Excerpta Medica; Section VIII Vol. 7 No. 11.

erenita a . .

HRADEC Eduard, assist. dr.; CHYTIL, Mirko, assist. dr.; ZAHOR, Zdenek, assist. dr.

Evaluation of the results of decapsulation and denervation of the kidneys with indications and contraindications. Sborn. lek. 61 no.10:250-266 Dec 54.

1. Z II chirurgicke kliniky, prednosta prof. dr. J.Davis.
Z II interni kliniky, prednosta prof. dr. A.Vancura, Z II
pathologicko-anatomickeho ustavu, prednosta prof. dr. V.Jedlicka.
(KIDHEYS, diseases
surg. decapsulation & denervation, indic. & contraindic.)

náiro, e.		
Diagnostic Importance of Examining by Pneumoretroperitoneum." p.	159.	
Casonis Lekaru Ceskych. Vol. 93, no. 6, Feb. 1954. Praha).		
East European Vol. 3, No. 6 So: Monthly List of Rystaldy Accessions, Library of Congress,	June	1953, Uncl.

SCHUCK, Ota: HRADEC. Eduard; s technickou spolupraci: M. Kleinove, M. Semradove, L. Korinka, H. Housove.

Function tests of individual kidneys; utilization in urological practice. Sborn. lek. 57 no.10:245-267 Dec 55.

1. Z I. interni kliniky, prednosta prof. dr. M. Netousek z II. chirurgicke kliniky, prednosta prof. dr. J. Divis.

(KIDNEY FUNCTION TESTS,

of individual kidneys)

HRADEC, Eduard

Ischemia of the lower extremity in venous thrombosis. Cas. lek. cesk. 94 no.7:169-172 ll Feb 55

1. Z II chirurg, kliniky; predn. prof. Dr.Jiri Divis
(IMG, blood supply
venous thrombosis, with ischemia)
(THROMBOSIS
leb, venous, with ischemia)

HRADEC, Eduard, Dr.; SCHLUPEK, Alexandr, Dr.

Terminal ileitis complicated by fistula between the small intestine and bladder. Roshl. chir. 35 no.5:282-286 May 56.

1. Z II. chirurgicke kliniky, prednosta akademik J. Divis. Z II. pathologickoanatomikeho ustavu, prednesta prof. Dr. V. Jedlicka.

(ILEITIS, compl.

terminal, causing vesicointestinal fistula, surg. (Cm))

(BLANDER, fistula

vesicointestinal, caused by terminal ileitis, surg. (Cm))

(INTESTINE, SMALL, fistula

same)

HRADEC, E.

Ureteral injuries in gynecological operations. Gesk. gymek. 43 nc.108734-747 D * 64

1. II. khirurg. klim. fak. vseob. lek. Karlovy University v Praze (prednosta prof. dr. J. Lhotka).

HRADEC, Eduard, Dr., asistent kliniky.

Primary retoperitoneal tumors. Rozhl. chir. 35 no.5:299-307 May 56.

1. Z II. chirurgicke kliniky, prednosta akademik J. Divis.
(RETROPERITONEAL SPACE, neoplasms
primary tumors, classif. & surg. (Cz))

HRADEC, Eduard, Dr.; CHYTIL, Mirko, Dr.; FIALOVA-PRECECHTRIOVA, Vera, Dr.

Hypertension caused by unilateral kidney disease. Shorn lek. 58 no.7:177-184 Sept 56.

1. II. Chirurgicka klinika, prednosta akademik J. Divis - interni klinika, prednosta prof. Dr. A. Vancura.

(KIDNEY DISEASES, compl.

hypertension caused by unilateral kidney dis. (Cz))

(HYPERTENSION, etiol. & pathogen.

unilateral kidney dis. (Cz))

HRADEC, Eduard

Reconstruction of the ureter with the aid of the small intestine. Rozhl. chir. 38 no.10:719-729 0 159

1. II. chirurgicka klinika fakulty viseobecneho lekarstvi University Karlovy v Praze zast. prednosta doc. dr. J. Zhotka.

(URETERS, surg.)

(INTESTINE SMALL, transpl.)

HRADEC, Eduard; LHOTKA, Jaroslav

Surgery of primary hyperparathyroidism. Conditions for success and causes of failures. Cas. lek. cesk. 98 no.35:1085-1089 28 Aug 59

1. II chirurgicka klinika KU v Praze, prednosta akademik J. Divis (PARATHYROID GIAND, dis.)

GRADETS, E. [Hraden, E.], kand.med.nauk; LGOTKA, Ya. [Lhotka, J.], kand. med.nauk,, dotsent

Recent data on the surgery of primary hyperparathyroidism. Khirursiia no.11382-88 '61. (MTRA 14812)

1. Iz 2-y khirurgicheskoy kliniki (zav. - dotsent Ya. Igotka) Karlova universiteta v Prage. (HYPERPARATHYROIDISM)

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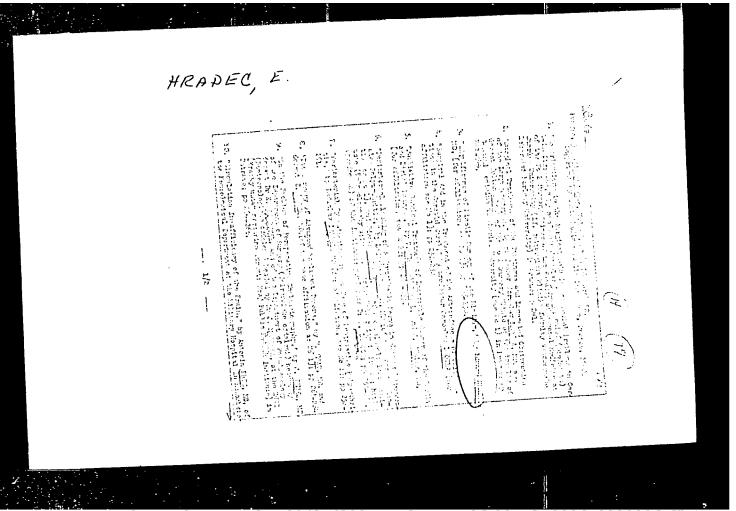
HRADCOVA, Libuse; HRADEC, Eduard

Contribution to surgical therapy of megaureters in children. Cesk. pediat. 17 no.9:802-807 S 162.

1. IV. detska klinika Detske fakultni nemocnice v Praze, prednosta prof. dr. F. Blazek II. chirurgicka klinika Fakultni nemocnice v Praze 2, prednosta prof. dr. J. Lhotka.

(URETER)

APP 00-00513R000618220006-6



 PACOVSKY, Vladimir; PETRASEK, Jan; DUBOVSKY, Jiri; HRADEC, Edward

New concepts on the hyperfunction syndrome of the adrenal medulla and present possibilities of diagnosis. Shorn. lek. 44 no.4:101-108 Ap '62.

1. III interni klinika fakulty vseobecneho lekarstvi Karlovy university v Praze, prednosta akademik J. Charvat. II chirurgicka klinika fakulty vseobecneho lekarstvi Karlovy university v Praze, prednosta prof. dr. J. Lhotka.

(ADRENAL MEDULLA diseases) (PHEOCHROMOCYTOMA diagnosis)

HRADEC, E.; BOREK, Z.; VENTA, J.; VALENTA, O.; MOFLIK, K.

Clinical aspects with special reference to the diagnosis of urological complications in gynecological cancer. Acta univ. carol. [med.] Suppl. 14:339-363 '61.

1. II. chirurgicka klinika fakulty vseobecneho lekarstvi University Kaflovy v Praze, prednosta doc. dr. J. Lhotka I. gynekologicka klinika fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. K. Klaus Ustav pro peci o matku a dite v Praze, reditel doc. dr. J. Vojta II. patologickoanatomicky ustav fakulty vseobecneho lekarstvi University Karlovy v Praze, prednosta prof. dr. V. Jedlicka. (GENITALIA FEMALE neopl) (UROLOGY)

HRADEC, E.

Surgical therapy of urinary bladder injuries in radiotherapy. Acta univ. carol. [med.] Suppl. 14:365-388 161.

1. II. chirurgicka klinika fakulty vseobecneho lekarstvi University
Karlovy v Praze, prednosta doc. dr. J. Lhotka.

(BLADDER radiation eff) (URETERS radiation eff)

(RADIOTHERAPY compl)

CZEC OSLOVARIA

HEADEC, E., MD.

Prague, Prakticky lekar, No 16, 1963, pp 627-628

"Clinical Treatment and Especially Diagnosis of Urologic Complications of Gynecological Cancer."

KOLAR M.; ANDRYSEK, O.; SOVA, J.; HRADEC, E.; SCHUCK, O.

Clinical application of isotope nephrography. Acta univ. Carol. [med] (Praha): Suppl. 18:25-31 :64.

1. Tofysikalni ustav fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: doc. dr. Z. Dienstbier); II. interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. F. Herles); II. chirurska klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. J. Lhotka) a I. interni klinika fakulty vseobecneho lekarstvi University Karlovy v Praze (prednosta: prof. dr. V. Hoenig).

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1. II. patologickoanatomicky ustav (prenosta prof. dr. V. Jedlicka) a II. chirurgicka klinika (prednosta prof. dr. J. Lhotka) fakulty vseobecneho lekarstvi KU [Karlova Universita] v Praze.

VOKACOVA, L.: HRADEC, E.

The oldest historical sources of urology in Czechoslovakia. Cas. lck. cesk. 103 no.45:1259-1261 6 N 164.

1. II. Chirurgicka klinika fakulty vaeobecneho lekaratvi Karlovy University v Fraze, (prednosta prof. dr. J. Lhotka).

HRADEC, E.

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HRADCOVA, Lo; HRADEC, E.

Vesicorenal reflux in relation to chronic pyelonephritis in children. Cesk. pediat. 20 no.2:106-110 F 165

1. IV. detska klinika (prednosta: prof. dr. F. Mazek); II. chirurgicka klinika (prednosta: prof. dr. J. Lhotka) fakulty vseobecneho lekarstvi Karlovy University v Praze.

PACOVSKY, V.; DUBOVSKY, J.; HRADEC, E.

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Heat was the sea, for ACOVERT, V.

Treatment of primary hyperparathyroidism. Rozhl. chir. 44 no.6: 377-381 Je 165.

1. II. chirurgicka klinika (prednosta prof. dr. J. Ihotka) a III. interni klinika (prednosta akademik J. Charvat) fakulty vseobecneho lekarstvi Karlove University v Praze.

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Contribution to the surgical treatment of uretheral strictures. Fozhl. Sir. 44 no.6:391-398 Je 165.

1. II. chirurgicka klimika fakulty vseobecneho lekarstvi Karlovy University v Praze (prednosta prof. dr. J. Lhotka).

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Plastic operations in hydronephrosis. Rozhl. chir. 44 no.6: 429-432 Je 165.

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Resection of the kidney and ureter in lithiasis. Cas. lek. cesk. 103 no.30:842-846 27 Jl.64

1. II. chirurgicka klinika fakulty vseobecneho lekarstvi KU [Karlovy university] v Praze; prednosta: prof. dr. J.Lhotka.

HRADEC, Jan, MUC

Paper filtration micro-electrophoresis of proteins. Cas.lek.cesk. 91 no.37:1062-1064 12 Sept 52.

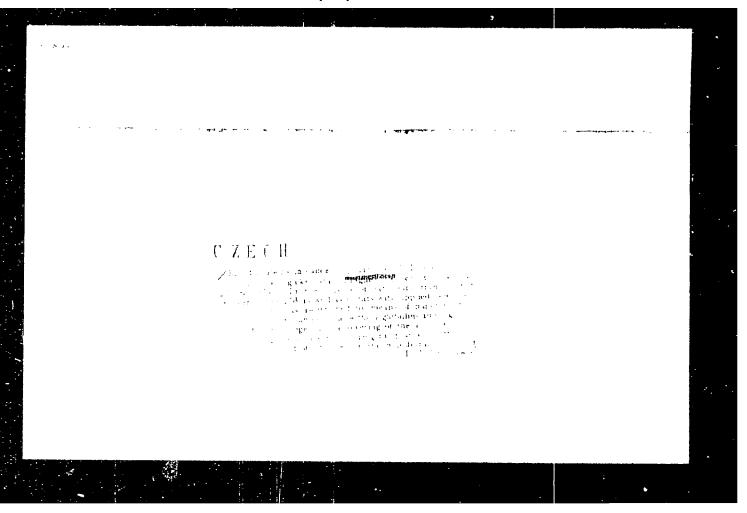
1. Z oddeleni pro klinickou chemii (prednosta prof. dr. Jan Sula) pri II. Ustavu lekarske chemie (prednosta prof. dr. A.F.Richter) Karlovy university v Praze.

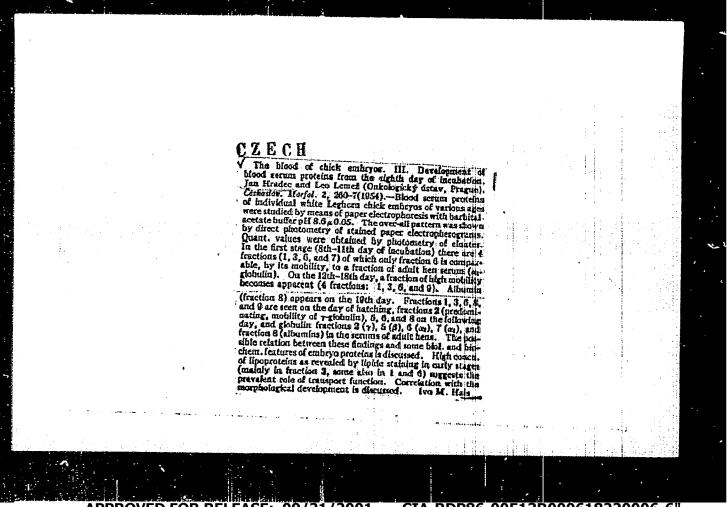
(BLOOD PROTBINS, determination, electrophoresis, micromethod)
(BLECTROPHORESIS, of blood proteins, micromethod)

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MADEC J. Biochem. Odd., Onkol. Ust., Pracoviste, Praha. Serove bilkoviny pri rakevine plic. I. Elektroforeticka-studie ser nemocnych plichimi chorobami se zretelem
k diferencialni diagnostice karcinomu Serum proteins in cancer of the lungs. Electrophoretic study of the serum in patients with pulmonary diseases with a view to the
differential diagnosis of cancer Cas. Lek. ces. 1953, 92/32 (367-870) Tables 1
Serum of 36 patients suffering from various pulmonary diseases were analysed by a
personal modification of filter-paper electrophoresis. The globulins were found
elevated and the albumins depressed in practically all subjects investigated. The
electrophoretic pattern cannot itself be regarded as a guide to the differential
diagnosis.

SO: EXCERPTA MEDICA, Vol. 8, No. 3, Section VI, March 1951;



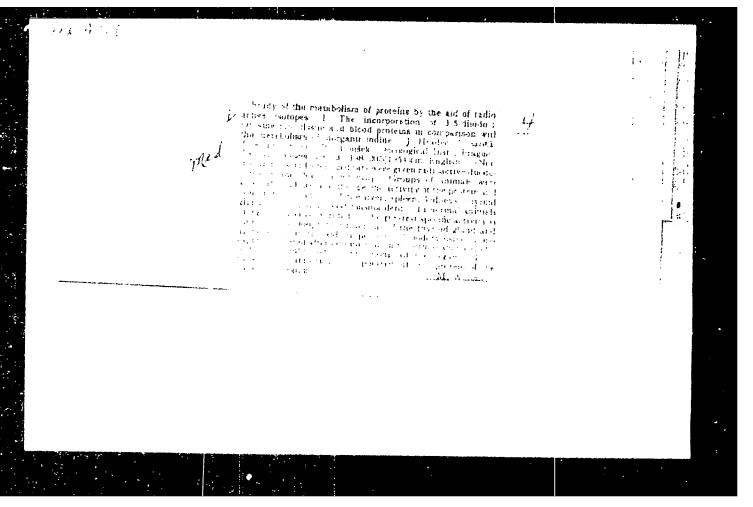


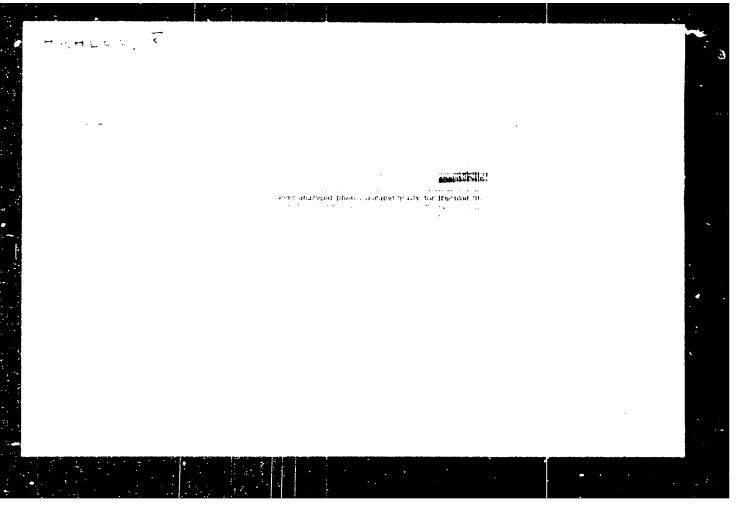
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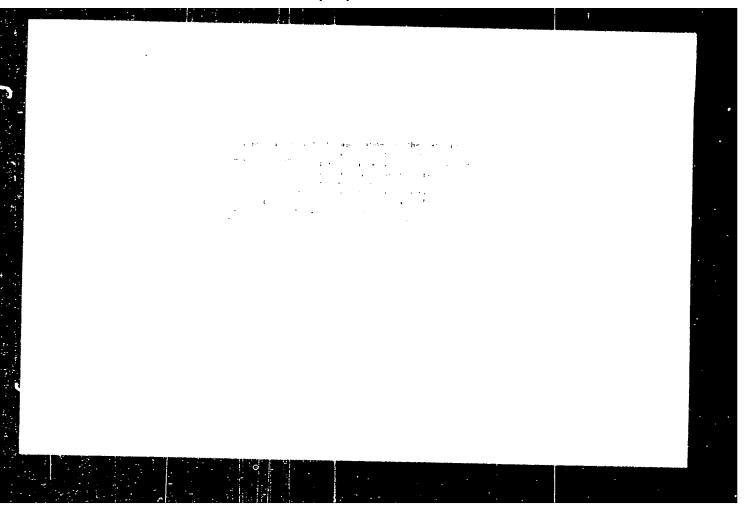
"Study of the Letabolism of Proteins with the Aid of Addicactive Isotoges.

I. Incorporation of 3.5 Diiodo-1-Tyrosine into Tissue and Blood Proteins in Comparison with the Metabolism of Inorganic Iodine." p. 130, (CESKOSLOVENSKA FYSIOLOGIE, Vol. 3, No. 2, May 1954, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions, (EEaL), LC, Vol. 4 No. 5, May 1955, Uncl.



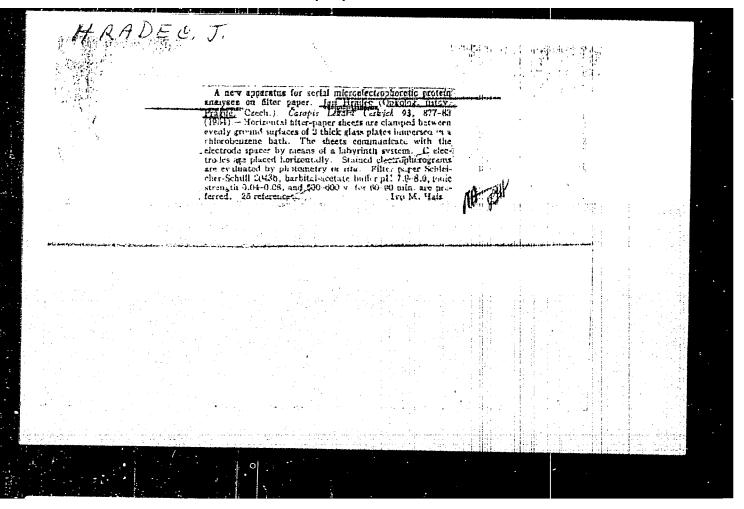


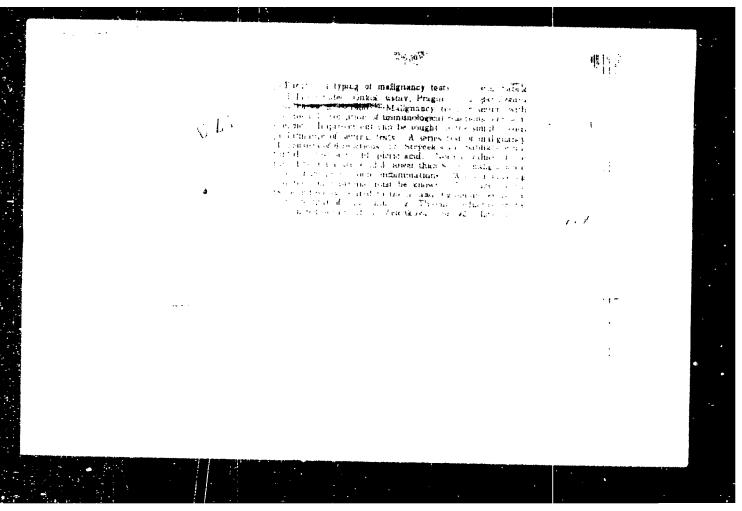


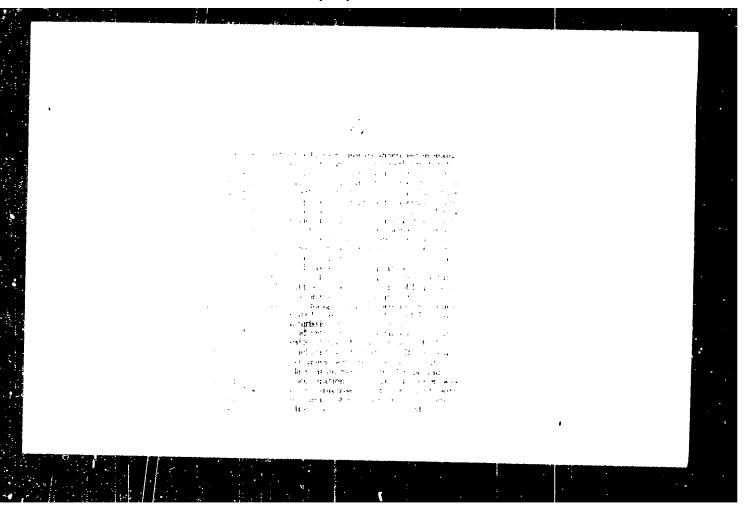
RABOCH, Jan; HRADEC, Jan.

Quantitative determination of fructose in human semen. Cas lek cs 93 no.15:383-390 Ap '54. (MKAL 3:7)

1. Ze Sexuologického ustavu Karlovy university v Praze; prednosta prof. Dr Jos. Hynie. 2. Z oddelení pro klinickou chemii (prednosta: prof. Dr J. Sula) pri II. ustavu pro lekarskou chmii Karlovy university v Praze (prednosta: prof. Dr A.F.Richter)
(SEMEN, (FRUCTOSE, *fructose, determ.)







TROJAN, Karel; HRADEC, Jan

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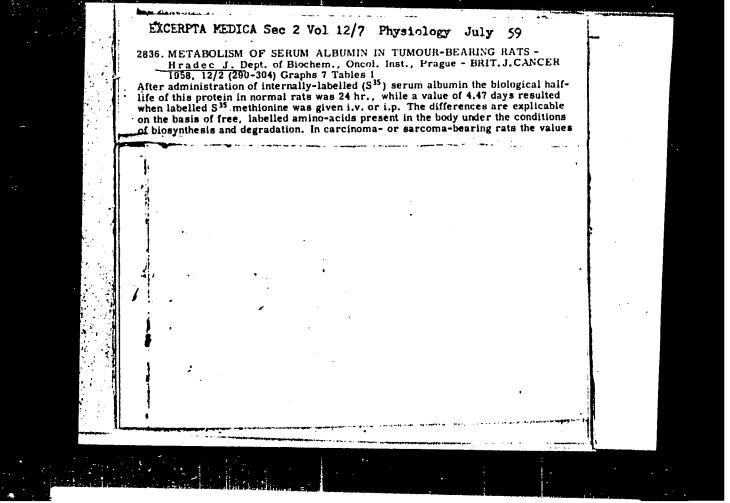
Sarcoma 2056; a new transplantable ascites tumor in rats. Neoplasma, Bratisl. 5 no.2:106-110 1958.

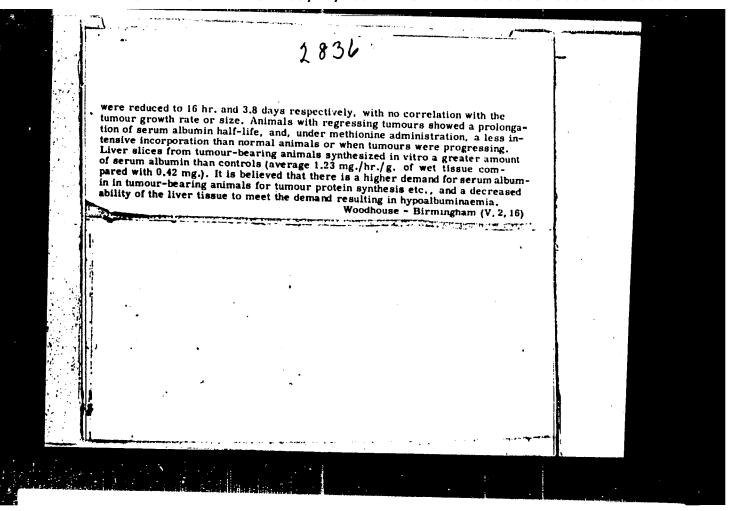
1. Department of Biochemistry, Oncological Institute, Praha. Authors' address: K. Trojan, Dr. J. Hradec, Na Tryhlarce 100, Praha 8, Liben. (SARCOMA, experimental, 2056, transplantable ascites tumor in rate)

HRADEC, J.; DUSEK, Z.; TROJAN, K.; PTACEK, M.

Tissue factors influencing growth of experimental tumors. Cesk. fysiol. 7 no.4:351-352 July 58.

1. Onkologicky ustav biochemicke oddeleni, Praha.
(NEOPIASMS, experimental,
eff. of various tissue factors on growth (Cz))





APPROVED FOR RELEASE: 09/21/2001 CIA-RDP86-00513R000618220006-6"

AUTHOR: Hradec, Jan

CZ/8/52(82)/10-37/39

TITLE:

Determination of Serum Albumin by the Method of Isotope Dilution (Stanovení serumalbuminu metodou

isotopového ředění)

PERIODICAL: Chemické Listy, 1958, Vol 52(82), Nr 10, pp 2015-2017 (Czechoslovakia)

ABSTRACT: The determination of small quantities of serum albumin in a medium with a high level of other proteins is very difficult. It is not possible under these circumstances to use physico-chemical methods nor precipitation procedures, since the excess of other protein not involved hinders the determination by these methods. Immunochemical methods have been used exclusively so far, e.g. the determination of serum albumin produced in the in vitro incubation of liver slices. The notable accuracy of this method is offset by the time consuming preparation of e.g. the antisera needed. The isotopic dilution method can be applied to radioactive as well as stable isotopes. This was employed and the preparation of pure material (quantitative yield not essential)

Card 1/4 achieved by dissolving trichloroacetic acid precipitated

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CZ/8/52(82)/10-37/39 Determination of Serum Albumin by the Method of Isotope Dilution

protein in organic solvents. This gives a rapid and accurate method suitable for serial analysis. used by the authors for a study of the biosynthesis of serum albumin by rat liver slices (fraction of one percent of total protein).

Experimental Reagents and Method. Standard samples of serum albumin were prepared by the Cohn fractionation procedure (checked for homogeneity by paper electrophoresis). A 1% solution in physiclogical saline (concentration checked by Kjeldahl method) 55s marked radioactive serum albumin was prepared (Ref 5). The preparation used contained 4.8 to 9.6 mg albumin/ml and had a specific activity of 0.4 to 0.5 µc/mg of protein. All the reagents used were of analytical quality. Radioactivity was measured in the precipitated protein on circular filter papers (S and S 602h, 7.1 cm²) by a bell type Geiger-Müller tube: mass window 4-5 mg/cm² (Tesla Vrchlabí) with decadic adaptor. Method. To analyse a solution containing serum albumin (1-3 mg) in the presence of excess extraneous proteins,

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Determination of Serum Albumin by the Method of Isotope Dilution

a radioactive solution of serum albumin (0.1 ml) is added, then sufficient 30% trichloroacetic acid is added to give a final concentration of 5%. After stirring, then standing for 10 mins, the protein is centrifuged off. The supernatant is poured off and the precipitate is mixed in a glass homogenisor with absolute ethanol (2 ml). The solution is re-centrifuged and the supernatant, containing extracted albumin, is separated and kept. Ether (2 ml) is added to it and the solution stirred with a glass rod until the moment the protein begins to flocculate. After 20 mins, the precipitate is centrifuged off and washed again with ether (2 ml). The precipitate is then homogenised in ether, using a glass homogeniser and the sample prepared for measurement of radioactivity on a previously weighed filter. Re-weighing gives the weight of the precipitate and the radioactivity is measured in impulses/min/mg albumin. The results may be calculated from an equation or a calibration curve and the specific activity of the albumin can be derived in the usual manner. Conditions are optimum

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Determination of Serum Albumin by the Method of Isotope Dilution

between 1 mg and 3 mg of albumin in the sample - the accuracy falls off outside this range. It is possible to use less pure protein but the reproducibility is poor. The sensitivity of the method is such that 0.1 mg steps in serum albumin concentration can be determined with + 2% accuracy (1-2 mg) and was used to follow the biosynthesis of serum albumin in vivo in rat liver slices. The drawback of the method is that it requires sufficient albumin to be weighed - the use of a gas phase such as ¹⁴CO₂ would increase sensitivity. There are 1 figure and 6 references, 1 of which is Czech and 5 Western.

ASSOCIATION: Biochemické oddělení, Onkologický ústav, Praha (Biochemical Division, Oncological Institute, Prague)

SUBMITTED: December 6, 1957

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CIA-RDP86-00513R000618220006-6" **APPROVED FOR RELEASE: 09/21/2001**

AUTHOR:

Hradec, J.

CZECH/8-52-11-27/30

TITLE:

Biosynthetic Preparation of Labelled Serum Albumin

(Biosynthetická příprava značkovaného serumalbuminu)

PERIODICAL: Chemické Listy, 1958, Vol 52, Nr 11, pp 2191 - 2194 (Czechoslovakia)

ABSTRACT: The author describes a method of the biosynthetic preparation

of internally 35S labelled protein. It has been found possible to obtain as much as 17% of the radioactivity as albumin as well as further amounts in the other blood

plasma fractions. In principle,

N2235SO4 is introduced into yeast protein by adding

to the yeast culture medium and the hydrolysate of the

yeast protein fed or injected into Wistar rats.

Experimental. Yeast cultivation, A culture of the yeast Torulopsis utilis var. maior, was sub-cultured from an agar plate into the liquid culture medium. The culture medium was as follows: glucose (10 g), neutral ammonium phosphate (6 g), KH₂PO₄ (1 g), magnesium chloride (0.21 g),

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Biosynthetic Preparation of Labelled Serum Albumin CZECH/8-52-11-27/30

sodium citrate (1 g) and 0.1 ml. each of 0.84% zinc chloride solution, 0.053% cupric chloride solution and 1.36% ferric ammonium sulphate and the mixture made up to I l with water. To each litre of medium was added malt (5 ml.) and the required amount of radioactive sodium sulphate. The cultivation was carried out in ground glass vessels with sintered glass plate at the end of the air inlet and air drawn through at 28 °C for 48 hours. The dry matter of the yeast was determined gravimetrically after filtering off the media through a G 4 sintered glass filter and drying at 105 °C to content weight. Experimental animals. Wistar rats (280 - 320 g) were deprived of food and water 24 hours before administering the radioactive material. The material was either given orally in diluted milk or dissolved in physiological solution for intraperitoneal or intravenous administration. The activity of the material was in the range: 0.5 - 1.1 mc. Blood was taken during ether anaesthesia from the heart and the 12-15 ml. of blood added to 3.8% sodium citrate solution (ratio 5:1).

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Biosynthetic Preparation of Labelled Serum Albumin

Radioactive Preparations. Sodium sulphate and methionine radioactively labelled with ³⁵S (0.6 - 1.1 mc/mg and 0.58 - 0.68 mc/mg specific activity respectively) were used.

Hydrolysis of Yeast Protein. Yeast protein was first precipitated and then washed with 10% trichloroacetic acid and hydrolysed with ten times its own volume of a mixture of concentrated sulphuric and formic acids (1:1) by refluxing for 16 hours. Protein samples for the determination of sulphur amino-acid content were heated in sealed tubes at 120°C for the same time. For application to animals, the hydrolysates were evaporated in vacuo, the residue dissolved in physiological solution and freed of humins by centrifuging.

Determination of Cystine and Methionine Content.

Hydrolysates were fractionated paper chromatographically with n-butanol/acetic acid/water (4/1/5; v/v). Autoradiographs of the chromatograms were prepared with X-ray film (Agfa Roentgen Duro) with, on the average, 3-4 weeks'

Card3/8 exposure. The auto-radiograms were scanned in a recording

Biosynthetic Preparation of Labelled Serum Albumin

densitometer (Zeiss) and the amounts determined by weighing the areas (on paper) underneath the curves corresponding to the two amino-acids. Apart from 20-25% of the total activity at the start, there were no other radioactive materials except these two amino acids. Preparative Electrophoresis. Isolation of serum albumin on a preparative scale was carried out in a somewhat modified Flodin and Porath apparatus (Ref 7). Columns (38 x 3 cm) were prepared from dry cellulose powder which had been washed by a series of solvents, then dried at 120 °C. columns were washed with buffer until the effluent was colourless. Plasma samples (10 - 15 ml.) were added to the moist column and separation carried out with a veronal-citrate-oxalate buffer at pH 8.6 (μ = 0.067) at 600 V for 20-24 hours. Un completion of the separation the protein was eluted from the column with buffer and fractions (3 ml.) collected with an elution rate of 0.2 to 0.3 ml./min. The protein content of the fractions was determined using absorption at 280 mm (Soviet SF4 spectro-

Card4/8 photometer). Qualitative examination of the fractions was

Biosynthetic Preparation of Labelled Serum Albumin

achieved by paper electrophoresis. Determination of radioactive serum albumin in plasma was carried out by a similar method for albumin using an isotope dilution technique.

Results and Discussion. Cultivation of Yeast
The utilisation of isotopes by the yeast depends on the intensity of growth of the yeast and the concentration of the radioactive isotope in the medium. The protein content of the yeast, on which naturally the cystine and methionine content of the culture depends, increases not only absolutely with increasing dry matter content, but also relatively. The lower levels of yeast dry matter protein comprises only 50% of the dry matter, whilst at higher dry matter levels it rises to 75%. At extremely low levels of dry matter the protein content of the culture is markedly high but since the absolute amount of the protein is low there is poor utilisation of the added isotopes. Higher dry matter levels leads to better utilisation of the isotopes added not only because of the larger amounts of protein present but also because the

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Biosynthetic Preparation of Labelled Serum Albumin

more intensive growth is accompanied by an increase of sulphur amino-acid content of the yeast protein molecule and the methionine content is directly proportional to the amount of dry matter. The second basic factor, influencing the formation of cystine and methionine from the added sulphate, is the concentration of the marked compound in the cultivation medium. It was found that the optimum yield is obtained at sodium sulphate concentrations of 2-3 mg/l00 g. At higher isotope concentrations the utilisation falls even though, of course, this increased concentration results in a proportionally high content of sulphur amino-acids in the yeast protein. Cultivation of yeast at optimal radioactive sulphate concentrations (2-3 mg/100 g) and at a sufficient growth rate (dry matter 8 g/1. or more) guarantees, according to the author's experience, an incorporation of 96-99% of the added sulphate in the yeast. Albumin biosynthesis. Results are given of the amount of marked serum albumin formed at various times after the supplying of marked yeast per os or radioactive methionine Card6/8 per os or intravenously. In all cases, two peaks occur

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in the curves, the first corresponding to the formation of the S - S bonds of the marked amino-acids and the second the maximum incorporation of the amino-acid. most suitable times for the taking of blood for serum albumin are given for the various methods of application as are the yields of radioactivity. The results for the yeast hydrolysate do not differ basically from those for pure methionine. Of course, it is necessary to take into account the amount of marked amino-acid formed which is destroyed by hydrolysis (20-25%). This drawback must be weighed against the advantage of having the amino-acids in the billogically active L-form. Isolation of Serum Albumin.

The authors claim that they are able to isolate about 75% of the serum albumin present in a pure form with one electrophoresis run. The remaining serum albumin can be obtained (giving 95% yield) by repeated electrophoresis of the fraction containing not only albumin but α_1 -globulin. The fractions containing

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pure albumin are combined, dialysed against distilled water and the dialysed protein freeze-dried. The pure native serum albumin so obtained, had a specific activity

Biosynthetic Preparation of Labelled Serum Albumin

of 0.3 - 0.4 μ c/mg when yeast was given per os and a specific activity of $0.5 - 0.7 \,\mu\text{c/mg}$ when yeast protein hydrolysate or synthetic methionine were given. There are 3 figures, 1 table and 9 references, 2 of which are Czech, 4 English, 2 German and 1 French.

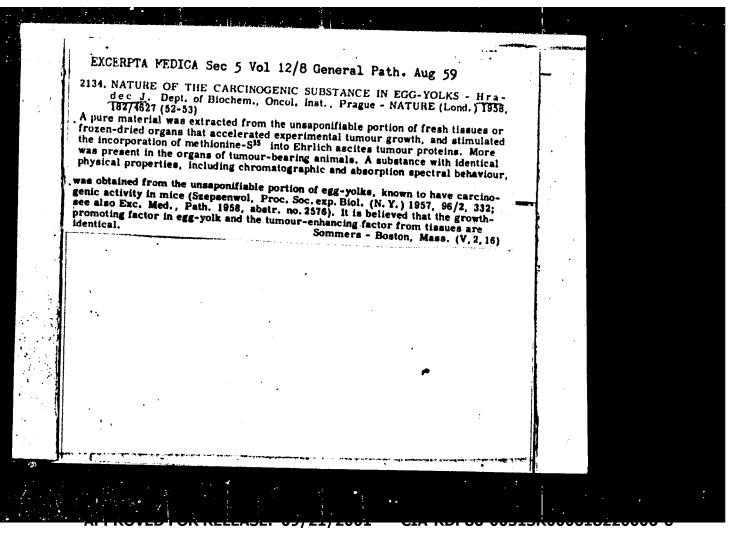
Biochemické oddělení, Onkologický ústav, Praha ASSOCIATION: (Biochemistry Division, Oncological Institute, Prague)

SUBMITTED:

December 6, 1957

This is an abridged translation.

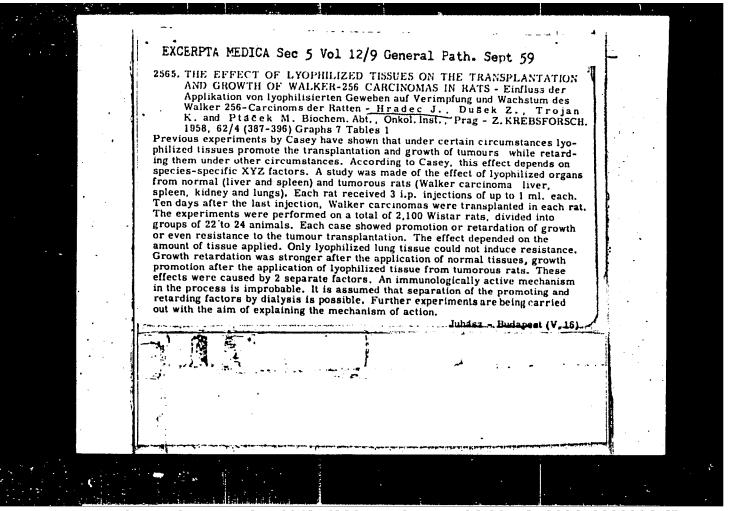
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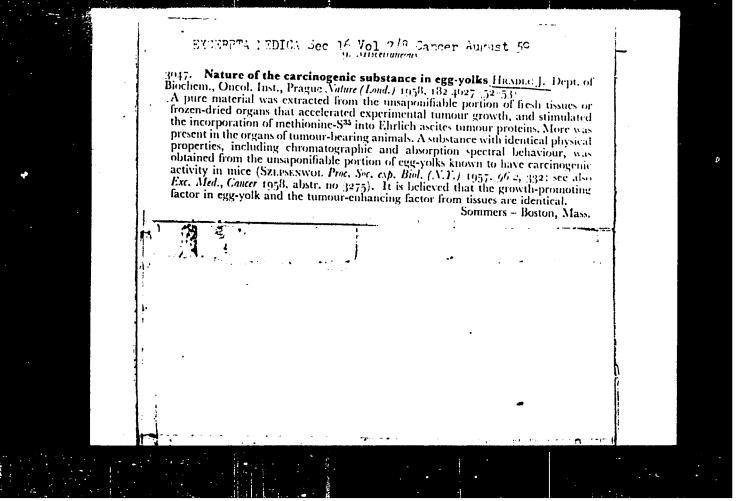
HRADEC, Jan

The present status of the biochemical diagnosis of cancer. Cesk. gyn. 24[38] no.6:460-463 July 1959

1. Biochem. odd (prednosta MUDr. J. Hradec) Onkologickeho ustavu v Praze, reditel MUDr. Frantisek Vadura. (NEOPIASMS, diag.)



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Effect of endogenous carcinogens on protein metabolism. Cesk. fysiol. 8 no.4:333-334 July 59.

1. Onkologicky ustav, biochemicke oddeleni, Praha. (CARCINOGENS, pharmacol.) (PROTEINS, metab.)

HRADEC, J.

Endogenous carcinogen in animal material and in egg yolk. Cesk. fysiol. 8 no.4:335-336 July 59.

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Serum albumin metabolism in patients with cancer and other diseases. Neoplasma, Bratisl. 7 no.1 suppl:60-63 '60.

(NEOPLASMS blood) (SERUM ALBUMIN)

HRADEC, J.; KRUML, J.

Carcinogenic activity of the growth factor from egg yolk and its relation to endogenous carcinogens. Neoplasma, Bratisl. 7 no.1 suppl:98-102 '60.

(CARCINOGENS)
(EGG YOLK)

HRADEC, J.

Effect of endogenous carcinogens on the incorporation of labeled amino acids into proteins of cellular structures. Neoplasma, Bratisl. 7 no.1 suppl:102-105 '60.

(CARCINOGENS pharmacol)
(AMINO ACIDS metab)

TROJAN, K.; HRADEC, J.

Effect of endogenous carcinoma on the growth and development of normal animals. Neoplasma, Bratisl. 7 no.1 suppl:111-113 '60.

(CARCINOGENS pharmacol) (GROWTH)